



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**{UNASSIGNED}**  
Machine Id  
**P 28 (Dodge Ram 3500)**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T4 15W40 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PE0002314</b>	---	---
Sample Date		Client Info		<b>21 Jun 2024</b>	---	---
Machine Age	mls	Client Info		<b>63000</b>	---	---
Oil Age	mls	Client Info		<b>2500</b>	---	---
Filter Age	mls	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>90	<b>19</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

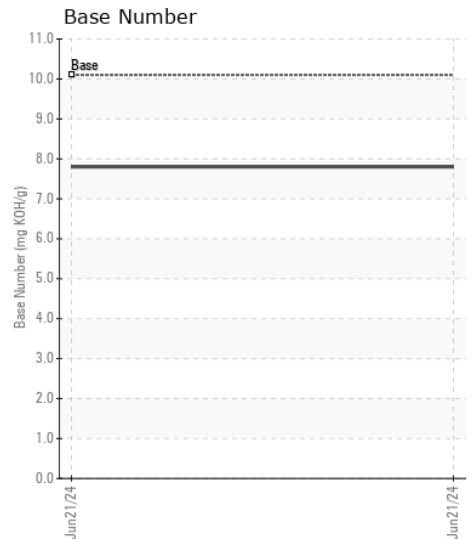
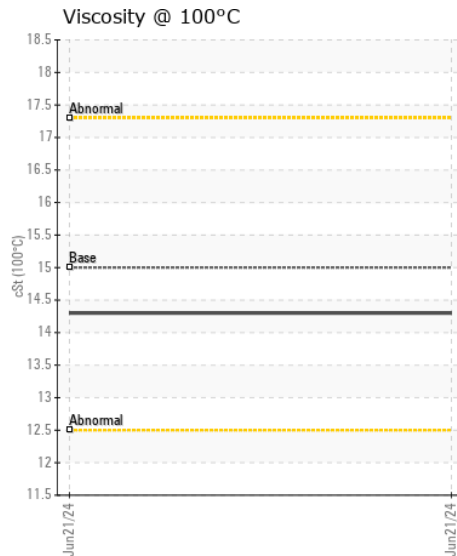
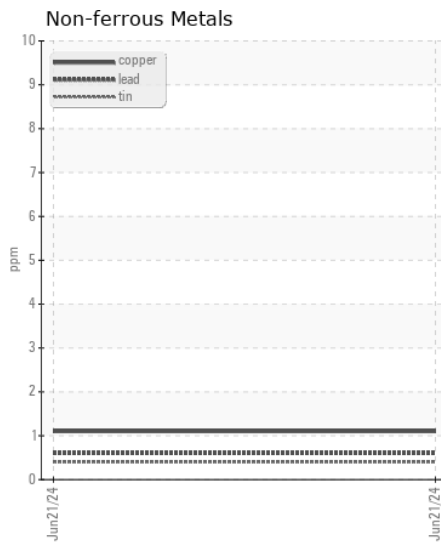
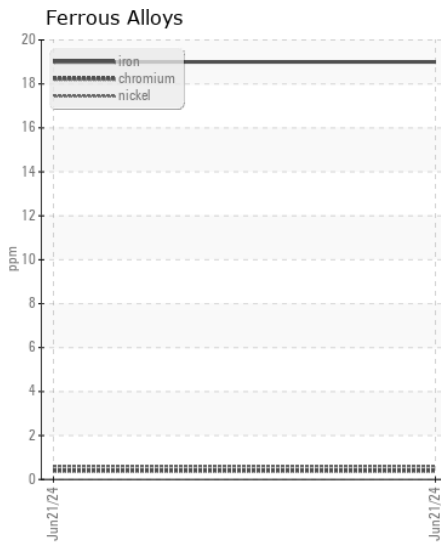
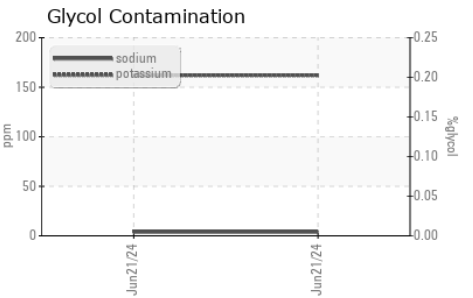
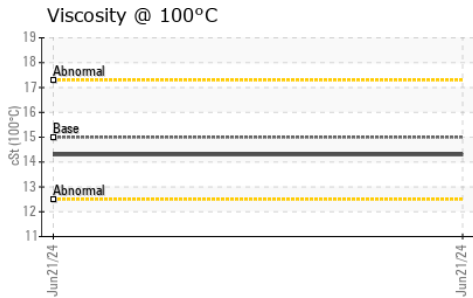
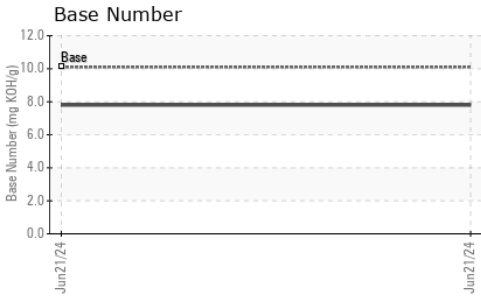
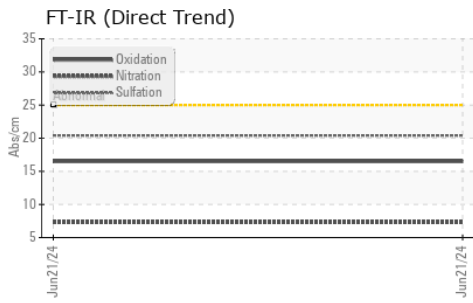
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>▲ 162</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol	%	*ASTM D2982		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>6	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	---	---
Boron	ppm	ASTM D5185m		<b>158</b>	---	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>6</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>53</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2068</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>857</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1100</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3314</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>7.8</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15	<b>14.3</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0002314  
**Lab Number** : 06219549  
**Unique Number** : 11097746  
**Test Package** : CONST ( Additional Tests: FT-IR, Glycol, ICP, KV100, SCREEN, TBN )

**Received** : 25 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Jonathan Hester

**BUCKS LOGGING**  
 2160 US-12  
 ETHEL, WA  
 US 98542

Contact: ROBERT  
 bucksloggingshop@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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